

SEQUENCE LISTING

<110> Serum Biomedical Institute
<120> METHOD OF PRODUCING RECOMBINANT DNA MOLECULES
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<151> 2003-06-20
<150> US 60/493586
<151> 2003-08-07
<160> 31
<170> PatentIn version 3.1
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 1 5 10 15

tgc tgc aat agc tgt gag ctg acc aac atc acc att gca ata gag aaa 96
 Cys Cys Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile Glu Lys
 20 25 30

gaa gaa tgt cgt ttc tgc ata agc atc aac acc act tgg tgt gct ggc 144
 Glu Glu Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly
 35 40 45

tac tgc tac acc agg 159
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<210> 4
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 Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys Ile Gln Lys Thr Cys
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acc ttc aag gaa ctg gta tat gaa aca gtg aga gtg ccc ggc tgt gct 96
 Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg Val Pro Gly Cys Ala
 20 25 30

cac cat gca gat tcc ttg tat aca tac cca gtg gcc acc cag tgt cac 144
 His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr Gln Cys His
 35 40 45

tgt ggc aag tgt gac agc gac agc act gat tgt act gtg cga ggc ctg 192
 Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys Thr Val Arg Gly Leu
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ggg ccc agc tac tgc tcc ttt ggt gaa atg aaa gaa taa 231
 Gly Pro Ser Tyr Cys Ser Phe Gly Glu Met Lys Glu
 65 70 75

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Glu Glu Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly
 35 40 45

Tyr Cys Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys
 50 55 60

Ile Gln Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg
 65 70 75 80

Val Pro Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val
 85 90 95

Ala Thr Gln Cys His Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys
 100 105 110

Thr Val Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Glu Met Lys
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atcaacaccca cttgggtgtgc tggctactgc tacaccagg atctggtgta taaggaccca 120
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gtgcccggct gtgctcacca tgcagattcc ttgtatacat acccagtggc caccagtgt 240
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390

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atgaagacac tccagttttt cttcc 25

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<223> primer PRX1 n.t. position 198-178 in SEQ ID NO: 1, cDNA sequence for human β-FSH

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cctggtgtag cagtagccag c 21

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<223> primer PFX2 n.t. position 199-219 in SEQ ID NO: 1, cDNA sequence for human β-FSH

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ccaagaagac gatgttggtc caaaaagaacg tcacctcaga gtccacttgc tgttagcta	360
aatcatataa cagggtcaca gtaatggggg gtttcaaagt ggagaaccac acggcgtgcc	420
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ccttcctcct tattcctacag tacaatcagc agtctagttc ttttcatttg gaatgaatac	660
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ttcttctccc agccgggtgc cccaaatactt cagtgcattgg gctgctgctt ctctagagca	180
tatcccaactc cactaaggc caagaagacg atgttggtcc aaaagaacgt cacctcagag	240
tccacttgct gtgttagctaa atcatataac agggtcacag taatgggggg tttcaaagt	300
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420
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	gaccaggcca ggcccaaaat ccagaaaaca tgtacccttca aggaactggt atatgaaaca	180	
	gtgagagtgc ccggctgtgc tcaccatgca gattccttgc atacatacc agtggccacc	240	
	cagtgtcact gtggcaagtg tgacagcgac agcactgatt gtactgtgcg aggccctgggg	300	
	cccagctact gtcctttgg taaaatgaaa gaataa	336	
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	gttctccatt ccgctccgtga tgtgcaggat tgcccagaat gcacgctaca ggaaaaccca	120	
	ttcttctccc agccgggtgc cccaaatactt cagtgcatgg gctgctgctt ctctagagca	180	
	tatcccactc cactaaggta caagaagacg atgttggtcc aaaagaacgt cacctcagag	240	
	tccacttgct gtgttagctaa atcatataac agggtcacag taatgggggg tttcaaagtg	300	
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<223> hybrid reverse primer ABLIGATION

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<212> DNA
<213> Artificial Sequence

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<223> PCR product glycalwoTAAUR

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tatcccactc cactaaggtc caagaagacg atgttggtcc aaaagaacgt cacctcagag 240
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<213> Artificial Sequence

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<223> synthetic peptide AB-FSH

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Glu Cys Thr Leu Gln Glu Asn Pro Phe Phe Ser Gln Pro Gly Ala Pro
35 40 45
Ile Leu Gln Cys Met Gly Cys Cys Phe Ser Arg Ala Tyr Pro Thr Pro
50 55 60
Leu Arg Ser Lys Lys Thr Met Leu Val Gln Lys Asn Val Thr Ser Glu
65 70 75 80
Ser Thr Cys Cys Val Ala Lys Ser Tyr Asn Arg Val Thr Val Met Gly
85 90 95
Gly Phe Lys Val Glu Asn His Thr Ala Cys His Cys Ser Thr Cys Tyr
100 105 110
Tyr His Lys Ser Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile
115 120 125
Glu Lys Glu Glu Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys
130 135 140
Ala Gly Tyr Cys Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg
145 150 155 160

Pro Lys Ile Gln Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr
 165 170 175
 Val Arg Val Pro Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr
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 Pro Val Ala Thr Gln Cys His Cys Gly Lys Cys Asp Ser Asp Ser Thr
 195 200 205
 Asp Cys Thr Val Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Glu
 210 215 220
 Met Lys Glu
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<210> 28
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<223> CDNA sequence of INF-beta without stop codon

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<210> 29
<211> 513
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<220>
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<223> INF-alpha-2B sequence with enterokinase site

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240
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<221> misc_feature
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<223> INF-beta/INF-alpha-2B sequence with enterokinase site

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acagtccctgg aagaaaaact ggagaaagaa gatttcacca gggaaaaact catgagcagt 420
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cccctgatga aggaggactc cattctggct gtgagggaaat acttccaaag aatcactctc 960
tatctgaaag agaagaaata cagcccttgc gctgggagg ttgtcagagc agaaatcatg 1020
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<223> INF-beta/INF-alpha-2B sequence without enterokinase site

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